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A LIMITED LIABILITY PARTNERSHIP INCLUDING LAW CORPORATIONS

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FACSIMILE (408) 720-8383
BSTZ_MAIL@BSTZ.COM
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INTELLECTUAL PROPERTY LAW
SILICON VALLEY
1279 OAKMEAD PARKWAY
SUNNYVALE, CALIFORNIA 94085-4040

October 17, 2003

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03.0220

URGENT
VIA FEDEX

James R. Thein, Esq.
James Thein Law Offices
2231 Crystal Drive
Crystal Park 3, Suite 105
Arlington, Virginia 22202

Re: CALIENT NETWORKS, INC.
U.S. Patent Application for
Title: ELECTROSTATIC ACTUATOR FOR
MICROELECTROMECHANICAL SYSTEMS AND
METHODS OF FABRICATION
Application No: 09/775,491
Filed: February 2, 2001
Our Reference No.: 4341P053

Dear Jim:

Please file the enclosed Information Disclosure Statement by hand carrying it to Examiner Karl Tamai in Group Art Unit 2834 on Monday morning, October 20, 2003. The telephone number of Examiner Tamai is (703) 305-7066.

Please have the postcard stamped and returned to us.

Thank you for your assistance.

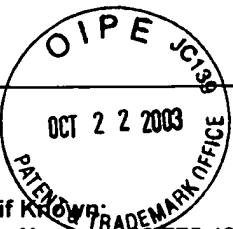
Very truly yours,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Lester J. Vincent

LJV/cpm

encl.



2834
1 MAE

FEE TRANSMITTAL FOR FY 2004

(FY 2004 Begins 10/01/2003)

TOTAL AMOUNT OF PAYMENT (\$) 180.00

Complete if Known:
Application No. 09/775,491

Filing Date February 2, 2001

First Named Inventor Scott Adams, et al.

Examiner Name Tamai, Karl I.

Art Unit 2834

Attorney Docket No. 4341P053

Applicant claims small entity status. See 37 CFR 1.27.

METHOD OF PAYMENT (check all that apply)

Check Credit Card Money Order Other None

Deposit Account

Deposit Account Number : 02-2666

Deposit Account Name:

The Director is Authorized to do the following with respect to the above-identified Deposit Account:

Charge fee(s) indicated below.

Credit any overpayments.

Charge any additional fees during the pendency of this application.

Any concurrent or future reply that requires a petition for extension of time should be treated as incorporating an appropriate petition for extension of time and all required fees should be charged.

Charge fee(s) indicated below except for the filing fee.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity	Small Entity	Fee Description	Fee Paid
Fee	Fee	Fee	
Code	(\$)	Code	(\$)
1001	770	2001	385
1002	340	2002	170
1003	530	2003	265
1004	770	2004	385
1005	160	2005	80
		Utility application filing fee	
		Design application filing fee	
		Plant filing fee	
		Reissue filing fee	
		Provisional application filing fee	

SUBTOTAL (1) \$ 0.00

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

	Extra Claims	Fee from below	Fee Paid
Total Claims	- 20** =	X	=
Independent Claims	- 3** =	X	=
Multiple Dependent			=

**Or number previously paid, if greater; For Reissues, see below.

Large Entity Small Entity

Fee	Fee	Fee	Fee	Fee Description
Code	(\$)	Code	(\$)	
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	**Reissue independent claims over original patent
1205	18	2205	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) \$ 0.00

FEE CALCULATION (continued)**3. ADDITIONAL FEES**

<u>Large Entity</u>	<u>Small Entity</u>	<u>Fee Description</u>	<u>Fee Paid</u>
Fee	Fee	Fee	
Code	(\$)	Code	(\$)
1051	130	2051	65
1052	50	2052	25
1053	130	1053	130
1812	2,520	1812	2,520
1813	8,800	1813	8,800
1804	920*	1804	920*
1805	1,840*	1805	1,840*
1251	110	2251	55
1252	420	2252	210
1253	950	2253	475
1254	1,480	2254	740
1255	2,010	2255	1,005
1401	330	2401	165
1402	330	2402	165
1403	290	2403	145
1451	1,510	1451	1,510
1452	110	2452	55
1453	1,330	2453	665
1501	1,330	2501	665
1502	480	2502	240
1503	640	2503	320
1460	130	1460	130
1807	50	1807	50
1806	180	1806	180
8021	40	8021	40
1809	770	2809	385
1814	110	2814	55
1810	770	2810	385
1801	770	2801	385
1802	900	1802	900
1504	300	1504	300
1505	300	1505	300
1803	130	1803	130
1808	130	1808	130
1454	1,330	1454	1,330

Other fee (specify) _____

Other fee (specify) _____

SUBTOTAL (3) \$ 180.00

*Reduced by Basic Filing Fee Paid

SUBMITTED BY:Typed or Printed Name: Lester J. VincentSignature: Lester J. Vincent Date: October 17, 2003Reg. Number: 31,460 Telephone Number: (408) 720-8300

Send to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450



Attorney Docket No. 4341P053

Patent

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Patent Application of:)
Scott Adams, et al.) Examiner: Tamai, Karl I.
Application No.: 09/775,491) Art Unit: 2834
Filed: February 2, 2001)
For: ELECTROSTATIC ACTUATOR FOR)
MICROELECTROMECHANICAL)
SYSTEMS AND METHODS OF)
FABRICATION)

Commissioner for Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Enclosed is a copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 together with copies of the documents cited on that form. It is respectfully requested that the cited documents be considered and that the enclosed copy of Information Disclosure Citation Form PTO-1449 or PTO/SB/08 be initialed by the Examiner to indicate such consideration and a copy thereof returned to applicant(s).

The Information Disclosure Statement is a resubmittal of references previously sent to the U.S. Patent and Trademark Office as part of previous Information Disclosure Statements for this case.

Pursuant to 37 C.F.R. § 1.97, the submission of this Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability.

10/23/2003 GWDRD0F1 00000093 09775491

01 FC:1806

180.00 OP

Pursuant to 37 C.F.R. § 1.97, this Information Disclosure Statement is being submitted under one of the following (as indicated by an "X" to the left of the appropriate paragraph):

37 C.F.R. §1.97(b).

37 C.F.R. §1.97(c). If so, then enclosed with this Information Disclosure Statement is one of the following:

A statement pursuant to 37 C.F.R. §1.97(e) or

A check for \$180.00 for the fee under 37 C.F.R. § 1.17(p).

37 C.F.R. §1.97(d). If so, then enclosed with this Information Disclosure Statement are the following:

(1) A statement pursuant to 37 C.F.R. §1.97(e); and

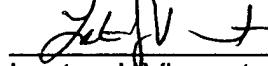
(2) A check for \$180.00 for the fee under 37 C.F.R. §1.17(p) for submission of the Information Disclosure Statement.

If there are any additional charges, please charge Deposit Account No. 02-2666.

Respectfully submitted,

BLAKELY, SOKOLOFF, TAYLOR & ZAFMAN LLP

Dated: October 17, 2003



Lester J. Vincent
Reg. No. 31,460

12400 Wilshire Blvd.
Seventh Floor
Los Angeles, CA 90025
(408) 720-8300

suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.
If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

Summary of USPTO Kind Codes Used on Documents Published Beginning January 2, 2001

WIPO ST.16 Kind Codes	Kind of document	Comments
A1	Patent Application Publication	Pre-grant publication available March 2001
A2	Patent Application Publication (Republication)	Pre-grant publication available March 2001
A9	Patent Application Publication (Corrected Publication)	Pre-grant publication available March 2001
B1	Patent	No previously published pre-grant publication
B2	Patent	Having a previously published pre-grant publication and available March 2001
C1, C2, C3...	Reexamination Certificate	Previously used codes B1 and B2 are now used for granted Patents
E	Reissue Patent	No change
H	Statutory Invention Registration (SIR)	No change
P1	Plant Patent Application Publication	Pre-grant publication available March 2001
P2	Plant Patent	No previously published pre-grant publication
P3	Plant Patent	Having a previously published pre-grant publication and available March 2001
P4	Plant Patent Application Publication (Republication)	Pre-grant publication available after March 2001
P9	Plant Patent Application Publication (Corrected Publication)	Pre-grant publication available March 2001
S	Design Patent	No change

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		DE 4224601 A1	1/27/1994	Hansmann et al.		
		DE 19757181 A1	07/01/1999	Bosch		
		DE 19800745 A1	07/15/1999	Bosch		
		EP 0 834759 A2	04/08/1998	Dhuler, et al.		
		EP 0 980014 A1	02/16/2000	Meier, et al.		

Examiner Signature		Date Considered	
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***EXAMINER:** Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)



<i>Complete if Known</i>	
Application Number	09/775,491
Filing Date	February 2, 2001
First Named Inventor:	Scott Adams
Art Unit	2834
Examiner Name	Tamai, Karl I.
Attorney Docket Number	4341P053

Sheet 2 of 7 Attorney Docket Number 4341P053

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

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Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		EP 1 120677 A2	Wood et al.	08/01/2001		
		EP 1 120989 A1	Mazzurco et al.	08/01/2001		
		GB 2 175 705 A	12/3/1986	Greenwood et al.		
		GB 2 239 101 A	06/19/1991	Rowe		
		GB 2 275 787 A	09/07/1994	Pember		

Examiner Signature		Date Considered	
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<i>Complet if Known</i>	
Application Number	09/775,491
Filing Date	February 2, 2001
First Named Inventor:	Scott Adams
Art Unit	2834
Examiner Name	Tamai, Karl I.
Attorney Docket Number	4241P053

Sheet 3 of 7 **Attorney Docket Number** 4341P053

U.S. PATENT DOCUMENTS

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		JP 60-107017	6/12/1985	Tanabe et al.		✓
		JP 5-107485 A	4/30/1993	Koyabu et al.		✓
		JP 6-180428	6/28/1994	Toyoda et al.		✓
		WO 94/18697	8/18/1994	Shaw et al.		
		WO 97/04283	2/6/1997	Miller et al.		

Examiner Signature _____ **Date Considered** _____

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Sheet 4 of 7 Attorney Docket Number 4341P053

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		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		WO 99/36941	7/22/1999	Adams et al.		
		WO 99/36948	7/22/1999	Adams et al.		
		WO 99/67666	12/29/1999	Laor		
		WO 01/33898 A2	05/10/2001	Ramaswami et al.		
		WO 01/39413 A2	05/31/2001	Ramaswami et al.		

Examiner Signature		Date Considered	
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Sheet

5

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First Named Inventor:	Scott Adams
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Examiner Name	Tamai, Karl I.
Attorney Docket Number	4341P053

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		Robert E. Mihailovich, Z. L. Zhang, K. A. Shaw, and Noel C. MacDonald, "Single-Crystal Silicon Torsional Resonators." School of Electrical Engineering, Cornell University, Ithaca, NY 14853, pp. 184-188, IEEE (February 1993).	
		Timothy J. Broshnihan, James M. Bustillo, Albert P. Pisano & Roger T. Howe, "Embedded Interconnect & Electrical Isolation for High-Aspect-Ratio, SOI Inertial Instruments," Berkeley Sensor & Actuator Sensor, pp. 637-640, Transducers '97, 1997 International Conference on Solid-State Sensors and Actuators (Chicago, June 16-19, 1997)	
		Janusz Bryzek, Kurt Petersen, & Wendell McCulley, "Micromachines on the March," IEEE Spectrum, pp. 20-31 (May 1994)	
		Wolfgang Kuehnel and Steven Sherman, "A Surface Micromachined Silicon Accelerometer with On-Chip Detection Circuitry," Sensors and Actuators A 45, pp. 7-16 (1994)	
		Howard K. Rockstad, et al., "A Miniature High-Sensitivity Broadband Accelerometer Based on Electron Tunneling Transducers," Sensors and Actuators A 43, pp. 107-114 (1994)	
		Lynn Michelle Roylance and James B. Angell, "A Batch-Fabricated Silicon Accelerometer," IEEE Transactions on Electron Devices, Vol. Ed-26, No. 12, pp. 1911-1917 (December 1979)	
		Kevin A. Shaw, et al., "SCREAM I: A Single Mask, Single-Crystal Silicon, Reactive Ion Etching Process for Microelectromechanical Structures," Sensors and Actuators A, 40 pp. 63-70 (1994)	
		Toshiki Hirano, et al., "Design, Fabrication, and Operation of Submicron Gap Comb-Drive Microactuators," J. of Microelectromechanical Systems, Vol. 1, No. 1, pp. 52-59, (March 1992)	
		V.P. Jaeklin, et al., "Comb Actuators for XY-Microstages," Sensors and Actuators, A, 39, pp. 83-89 (1993)	
		Susanne C. Arney and Noel C. MacDonald, et al., "Formation of Submicron Silicon-On-Insulator Structures by Lateral Oxidation of Substrate-Silicon Islands," J. Vac. Sci. Technol. B Vol. 6 No. 1, pp. 341-345, (Jan/Feb 1988)	
		Diederick W. de Bruin, et al., "Second-Order Effects in Self-Testable Accelerometers," IC Sensors, IEEE, pp. 149-152 (1990)	

Examiner Signature	Date Considered
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Substitute for Form 1449/PTO

Complete if Known
**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

OCT 22 2003

PATENT & TRADEMARK OFFICE

Application Number	09/775,491
Filing Date	February 2, 2001
First Named Inventor:	Scott Adams
Art Unit	2834
Examiner Name	Tamai, Karl I.

Attorney Docket Number 4341P053

Sheet

6

of

7

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		"Lucent's New All-Optical Router Uses Bell Labs Microscopic Mirrors," Bells Labs press release, pp. 1-4, November 10, 1999. http://www.bell-labs.com/news/1999/november/10/1.html	
		Rudolf F. Graf, Radio Shack Dictionary of Electronics, p. 639, Definition of Varibale Capacitor with Picture (1974)	
		M. Adrian Michalicek, Wenge Zhang, Kevin F. Harsh, Victor M. Bright, and Y.C. Lee, "Micromirror Arrays Fabricated by Flip-Chip Assembly," Part of the SPIE Conference on Miniaturizes Systems with Micro-Optics and MEMS, Santa Clara, SPIE Vol. 3878, pp. 68-79 (September 1999)	
		Chris Seung-Bok Lee, Sejin Han, Noel C. MacDonald, "Mulitple Depth, Single Crystal Silicon MicroActuators for Large Displacement Fabricated by Deep Reactive Ion Etching," Solid-State Sensor and Actuator Workshop, Hilton Head Island, SC, pp. 45-50 (June 8-11, 1998)	
		Russell Y. Webb, Scott G. Adams, and Noel C. MacDonald, "Suspended Thermal Oxide Trench Isolation for SCS MEMS." SPIE Vol. 3519, Boston, MA, pp. 196-199 (November 1998)	
		Seung Chris B. Lee, "Two-Depth, Single Crystal Silicon Microelectromechanical Systems." A Dissertation Presented to the Faculty of the Graduate School of Cornell University in Partial Fulfillment of the Requirements for the Degree of Doctor of Philosophy, (January 2000)	
		Leslie A. Field, Diane L. Burriesci, Peter R. Robrish, and Richard C. Ruby, "Micromachined 1 X 2 Optical-Fiber Switch," Sensors and Actuators A, 53, pp. 311-315, (1996)	
		Larry J. Hornbeck, "Digital Light Proecssing for High-Brightness, High-Resolution Applications," SPIE Vol. 3013, San Jose, CA, pp. 27-40 (February 1997)	
		Noel C. MacDonald, "SCREAM MicroElectroMechanical Systems." Microelectronic Engineering, 32, pp. 49-73 (1996)	
		Ming C. Wu, "MEMS for Optical and RF Applications." UCLA Extension, Department of Engineering, Information Systems and Technical Management, Engineering: 823.52, November 1-3, 1999.	
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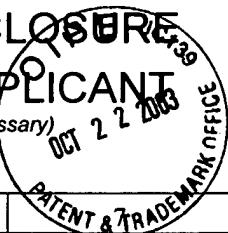
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Sheet	7	of	Attorney Docket Number	4341P053
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Complete if Known

Application Number	09/775,491
Filing Date	February 2, 2001
First Named Inventor:	Scott Adams
Art Unit	2834
Examiner Name	Tamai, Karl I.

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
		William C. Tang, Martin G. Lim, and Roger T. Howe, "Electrostatic Comb Drive Levitation and Control Method" Journal of Microelectromechanical Systems, Vol. 1, No. 4, pp. 170-178 (December 1992)	
		PCT Notification of Transmittal of The International Search Report or The Declaration for PCT Counterpart Application No. PCT/US01/03760 Containing International Search Report (September 5, 2001)	
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		D.T. Neilson, V.A. Aksyuk, S. Arney, N.R. Basavanhally, K.S. Bhalla, D.J. Bishop, B.A. Boie, C.A. Bolle, J.V. Gates, A.M. Gottlieb, J.P. Hickey, N.A. Jackman, P.R. Kolodner, S.K. Korotky, B. Mikkelsen, F. Pardo, G. Raybon, R. Ruel, R.E. Scotti, T.W. Van Blarcum, , L. Zhang, and C.R. Giles, "Fully Provisional 112 x 112 Micro-Mechanical Optical Crossconnect With 35.8Tb/s Demonstrated Capacity," OFC 2000 Tech. Dig., Baltimore, Maryland, pp. 202-204 (March 7-10, 2000)	

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